REPORT RESUMES

ED 013 599

JC 660 088

A DESCRIPTION OF JUNIOR COLLEGES.

BY- RICHARDS, JAMES M. AND OTHERS

AMERICAN COLLEGE TESTING PROGRAM, IOWA CITY, IOWA

REPORT NUMBER ACT-RR-JUL-1965-NO-5 PUB DATE

EDRS PRICE MF-\$0.25 HC-\$1.92 48P.

DESCRIPTORS- *JUNIOR COLLEGES, *COLLEGE ENVIRONMENT, *INSTITUTIONAL ENVIRONMENT, STUDENT CHARACTERISTICS, TEACHER CHARACTERISTICS, STATISTICAL ANALYSIS, FACTOR ANALYSIS,

FROM INFORMATION GIVEN TO THE AMERICAN ASSOCIATION OF JUNIOR COLLEGES BY 581 COLLEGES, 36 VARIABLES WERE IDENTIFIED IN THE AREAS OF TYPE OF CONTROL, CURRICULAR EMPHASIS, FINANCIAL CHARACTERISTICS, AND MISCELLANEOUS CHARACTERISTICS. AFTER THE COMPUTATION OF INTERCORRELATIONS AMONG THESE VARIABLES, FACTORING OF THE RESULTANT CORRELATION MATRIX PRODUCED 12 FACTORS, SIX OF WHICH WERE ROTATED TO A FINAL SOLUTION--(1) CULTURAL AFFLUENCE, (2) TECHNOLOGICAL SPECIALIZATION, (3) SIZE, (4) AGE, (5) TRANSFER EMPHASIS, AND (6) BUSINESS ORIENTATION. LACK OF CONGRUENCE OF THESE FACTORS WITH THOSE DEVELOPED IN AN EARLIER STUDY OF 4-YEAR COLLEGES INDICATES THAT DIFFERENCES DO EXIST BETWEEN THE TWO TYPES OF INSTITUTIONS. USE OF THESE FACTORS ENABLES THE ASSESSMENT OF JUNIOR COLLEGE ENVIRONMENTS IN TERMS OF THEIR EFFECTS ON STUDENT ACCOMPLISHMENT AND GROWTH. DESCRIPTIONS OF THE FACTORS AND SCORES OF EACH COLLEGE IN THE STUDY ARE INCLUDED. (WD)

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE OFFICE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.

ACT

RESEARCH REPORTS

A DESCRIPTION OF

JUNIOR COLLEGES

July, 1965 No. 5

James M. Richards, Jr. Lorraine M. Rand Leonard P. Rand



Published by Research and Development Division • American College Testing Program • P. O. Box 168, Iowa City, Iowa 52240

Summary

In a population of 581 accredited junior colleges, measures of 36 major attributes were intercorrelated. With unity in the diagonal, a principal components analysis was carried out, extracting 12 factors with an eigenvalue greater than 1.00. The first six of these factors were rotated to a final solution through the Varimax procedure. The six rotated factors were titled: Cultural Affluence, Technological Specialization, Size, Age, Transfer Emphasis, and Business Orientation. The junior college factors are not congruent with factors for four-year colleges.

A Description of Junior Colleges

James M. Richards, Jr. 1

Lorraine M. Rand

Leonard P. Rand

The increasing interest in higher education shown by the general public and the burgeoning studies of colleges and universities have emphasized the need for comprehensive information about the characteristics of colleges and the ways in which colleges differ. Such information is essential to gaining an understanding of the effect on student growth and development of different college environments.

In the past seven years, several ways of describing institutions of higher education have been tried. Pace and Stern (1958) have developed the College Characteristics Index (CCI), a true-false inventory which measures 30 features of the environmental "press" of the college. Astin and Holland (1961) have developed the Environmental Assessment Technique (EAT) which attempts to assess the environment in terms of eight characteristics of the student body: its size, average intelligence, and six "personal orientations" -- Realistic, Intellectual, Social, Conventional, Enterprising, and Artistic -- based on the proportion of students in each of six classes of major field. These EAT variables were found to account for a substantial amount of variance in CCI scales, and later they were shown to predict the "effects" of the college as reported by the student (Astin, 1963). Still another way to describe college environments is factor analysis of



various measures of college characteristics (Astin, 1962, 1965a). Finally, college environments have been viewed simply as a set of potential stimuli, or "observable characteristics of the college that are capable of changing the sensory input to the student attending the college" (Astin, 1965b).

Previous studies of college environments, however, have been restricted to four-year colleges granting the baccalaureate degree. The nearly 600 accredited junior colleges in the United States have been ignored. Indeed, the failure of behavioral scientists concerned with education to consider junior colleges is pervasive. For example, in a recent book of more than 1000 pages self-described as "a psychological and social interpretation of the higher learning" (Sanford, 1962), the index cites ten references to junior colleges, which is six references fewer than to house masters at Harvard. Moreover, the majority of the few references to junior colleges patronize and dismiss junior colleges as another two years of high school.

The major exception to the general neglect of junior colleges is the work of the University of California Center for the Study of Higher Education. This work, however, has involved general treatments of junior colleges (Medsker, 1960), sociological studies of single junior colleges (Clark, 1960), and studies of the articulation between two- and four-year colleges (Knoell and Medsker, 1964). No attempt has been made to develop descriptions of junior college environments or to study the effect of junior colleges on students.

This disregard of junior colleges is unfortunate because of several trends in our society. The population of college-age people is growing rapidly, and changing employment patterns have produced an increasing need for highly trained, skilled personnel and declining need for unskilled workers. As a result, the demand for education beyond high school is expanding very rapidly, and there is no indication of any decline in the future. In spite of the serious social problems resulting from these trends, many four-year colleges, and especially the most prestigious institutions, have been unwilling (or unable) to make any response other than increasing selectivity. As a result, it is probable that most of the burden of meeting the increased demand for education beyond high school will fall on junior colleges. Some projections estimate that by 1970, some junior college will be the first college attended by 75% of entering college freshmen (Prudential, 1963). In this situation, the interests of students, of colleges, and of society demand that plans for the future growth of junior colleges be as rational as possible and based on knowledge of colleges and their effects upon student development and accomplishment.

The present study is a step in providing the knowledge necessary to intelligent planning for better junior colleges. The basic purpose is to organize the information currently available about junior colleges into a brief profile. Such a brief profile can be used both to characterize individual junior colleges, and in subsequent research to study the effects of colleges on students more efficiently. The basic technique is a

factor analysis of 36 measures of junior college characteristics. This study, therefore, is largely a replication in a population of junior colleges of Astin's (1962) study of four-year colleges.

Procedure

Population of Junior Colleges

The group of junior colleges consisted of 581 accredited, two-year colleges. This group included all junior colleges for which data are reported in American Junior Colleges (Gleazer, 1963), with the exception of colleges which are exclusively for the training of priests, members of religious orders, etc. The sole restriction for inclusion in American Junior Colleges is that the college be recognized by regional or state accrediting agencies. Therefore, the group of colleges studies should be considered the population of accredited junior colleges, rather than a sample of some population.

Measures of Junior College Characteristics

Thirty-six institutional variables were selected for study. The choice of variables had two primary aims: first, to include at least some data for all methods which are currently used in characterizing institutions, and, second, to include as many as possible of the variables Astin (1962) used in his study of four-year colleges. Unless stated otherwise, the information about junior college characteristics was obtained from American Junior Colleges (Gleazer, 1963). In most cases the information in this compendium was reported by each junior college for the academic year 1961-62.

Type Characteristics. Among the most commonly used ways of classifying colleges are type of control and curricular emphasis. The following five measures of these characteristics were included in this study:

- 1. Private versus Public Control -- Public score 0; private score 1.
- 2. Degree of Religious Control--Non-denominational score 0;
 Protestant score 1; Catholic score 2.
- 3. Liberal Arts Emphasis -- No liberal arts curriculum 0, liberal arts plus other curricula 1, liberal arts curriculum only 2.
- 4. Teacher Training Emphasis -- No teacher training 0, teacher training plus other training 1, teacher training only 2.
- 5. Technical Training Emphasis -- No technical school training 0, technical training plus other training 1, technical school only 2.

Financial Characteristics. Measures of five financial characteristics were included. In order to eliminate any correlations due simply to differing sizes of junior colleges, all financial characteristics (except tuition) were divided by the junior college's total enrollment thus expressing each measure on a "dollars per student" basis.

- 6. Tuition -- For public institutions, non-resident fees were used.
- 7. Endowment -- Estimated market value.
- 8. Operating Budget--Annual expenditures for educational and general purposes.
 - 9. Capital Income -- Gifts and appropriations for capital purposes.
 - 10. Scholarship Funds -- Amount of money available for scholarships.



Student Characteristics. The following fourteen characteristics of the student body were assessed as follows:

- 11. Percentage of Males in the Student Body
- 12. Percentage of Out-of-State Students in the Student Body
- 13. Percentage of Foreign Students in the Student Body
- 14. Percentage of Part-Time Students in the Student Body
- 15. Percentage of Students Earning Half or More of their College Expenses
- 16. Total Enrollment--In order to obtain a more nearly normal distribution, the score on this variable is the square root of the total number of students enrolled.
- 17. Aptitude Level--The score used for this variable was average composite score on the American College Testing Program's national test battery of applicants to each college in the academic year 1962-63. Unpublished ACT research indicates a correlation of .96 between average composite scores of applicants and average composite scores of freshmen who actually enter colleges. The ACT test battery is a typical test of academic potential, with reliabilities and validities against grade criteria of the magnitude to be expected for such tests (ACT Technical Report, 1965).
- 18. Realistic Orientation -- Percentage of students studying agriculture, forestry, engineering, etc.
- 19. Intellectual Orientation -- Percentage of students studying science, mathematics, philosophy, etc.

- 20. Social Orientation -- Percentage studying education, nursing, etc.
- 21. Conventional Orientation -- Percentage studying accounting, secretarial, etc.
- 22. Enterprising Orientation -- Percentage studying political science, pre-law, business administration, marketing, etc.
- 23. Artistic Orientation--Percentage studying art, music, journalism, etc.

Variables 18-23 compose the heart of the Environmental Assessment Technique (Astin and Holland, 1961). There is some doubt as to the appropriateness of using these variables in a factor analysis, since there is an ipsative relationship among them. Nevertheless, they were included in this study because they tap important information and in order to replicate as nearly as possible Astin's (1962) study of four-year colleges. Astin's results, in addition, were clear and meaningful, which suggests that the results were not seriously affected by the ipsative scoring of the EAT variables. In the present study, the EAT variables are based only on fields which clearly belonged in one of the types. Students in an undifferentiated "liberal arts" curriculum were not considered.

24. Homogeneity--Score on this variable is the difference between the highest and lowest EAT variable. High scoring (homogeneous) colleges tend to have students in only one curriculum, while low scoring (heterogeneous) colleges have students enrolled in a wide variety of fields.

Faculty Characteristics. These included:

- 25. Percentage of Faculty Holding a Doctoral Degree
- 26. Percentage of Faculty Holding a Masters Degree

Variables 25 and 26 concern the extent to which the faculty has training beyond the baccalaureate degree. On an over-all basis, about one-third of the members of junior college faculties have only a bachelors degree. Scores on these two variables differ from Astin's (1962) study of four-year colleges in that, in this study, they were based on the total faculty, both full-time and part-time.

- 27. Percentage of Faculty which is Full-Time
- 28. Faculty-Student Ratio--Number of full-time faculty divided by number of full-time students.

Miscellaneous Characteristics. Included here are:

- 29. Library Size--Number of books in the library.
- 30. Relative Library Size--Number of books divided by the total enrollment.
- 31. Variety of Curriculum--Total number of different fields of study offered.
 - 32. Percentage of Graduates Going On to Four-Year Colleges
- 33. Growth Rate--Percentage of increase in enrollment between 1958 and 1962.
- 34. California Location--Colleges located in California 1, other colleges 0. This variable was included because California has the most extensive junior college system in the country, and we wanted to investigate whether this system has any special characteristics which



distinguish it from other junior colleges.

- 35. Age of Institution--Colleges founded since 1954 scored 0, colleges founded between 1945 and 1954 scored 1, colleges founded between 1930 and 1944 scored 2, and colleges founded before 1930 scored 3.
- 36. Placement Service--Colleges having a placement service scored 1, other colleges scored 0.

Method

Product moment correlations were computed among the 36 variables. Since not all scores were available for all colleges, a program which allows for missing data was used. Thus correlations are based only on those colleges for which data were available. The resultant correlation matrix was factored by the principal components method based on eigenvalues and eigenvectors with unity in the diagonal and extraction of all factors with an eigenvalue greater than 1.00. This procedure, including the use of unity in the diagonal, is Harris's (1964) Model A factor analysis and it follows the rationale presented by Kaiser (1960). A major advantage of this procedure is that it produces factors which are linear combinations of the observable variables, thus making it possible to compute factor scores (Kaiser, 1965).

Twelve factors with an eigenvalue greater than 1.00 were extracted. However, several considerations--including an unsatisfactory preliminary rotation of all twelve factors, a comparison of communalities after extraction of each factor with the highest correlation for each variable,

and a plot of the eigenvalues--suggested that only half of these twelve factors should be included in the factor rotation. Accordingly, the first six factors were rotated to a final solution by the Varimax procedure (Kaiser, 1958).

Results

The mean, standard deviations, and number of colleges for which a score was available for each variables are shown in Table 1. Some variables are highly skewed. For the most part, these variables are those on which a relatively large number of colleges had a score of 0. For example, many junior colleges (especially public colleges) have no endowment. As a result the distribution of endowment is quite skewed. In such cases, of course, there is no transformation which will eliminate the skewness.

Table 1

Means, Standard Deviations, and Numbers of Observations
for Junior College Characteristics

	variable	No. of Colleges for which Data Available	Mean	Standard Deviation
1.	Private (versus Public)		1	
	Control	581	. 32	. 47
2.	Degree of Religious Contr	ol 581	.22	.49
3.	Liberal Arts Emphasis	574	.91	. 38
4.	Teacher Training Emphas	sis 574	. 58	. 49
	Technological Emphasis	574	.75	. 47
6.	Tuition	533	394.57	383.90
7.	Endowment/Student	509	340.56	2116.56
8.	Operating Budget/Student	482	648.59	567.78
	Capital Income/Student	191	305.56	489.72
	Scholarship Funds/Studen	t 520	20.31	71.12
	Percentage of Males	571	58.48	23.08
	Percentage of Out-of-Stat	e		
•	Students	501	15.38	22.31



-11-

Table 1 (cont.)

	No	o. of Colleges		G. 1
	Variable fo	r which Data	Mean	Standard
		Available		Deviation
1.0	T)			
13.	Percentage of Foreign			
1 4	Students	578	.80	1.64
14.	Percentage of Part-Time			
4 F	Students	571	29.17	27.02
15.	Percentage of Students			
	Earning 1/2 of Expenses	386	52.09	27.68
	Total Enrollment	579	30.10	22.07
	Aptitude Level of Students	314	18.14	2.07
	Realistic Orientation	497	25.26	24.30
	Intellectual Orientation	497	6.86	8.00
	Social Orientation	497	24.79	19.94
	Conventional Orientation	496	26.39	22.48
	Enterprising Orientation	497	9.51	14.61
23.	Artistic Orientation	496	5.36	10.42
24.	Homogeneity of Environmen	t 497	47.60	23.62
25.	Percentage of Faculty with			
	Ph.D.	575	6.92	8.44
26.	Percentage of Faculty with			0, 11
	Masters	577	61.34	20.59
27.	Percentage of Faculty which		01.01	20.39
	are Full-Time	579	65.06	26.64
28.	Faculty-Student Ratio	575	.07	. 07
	Library Size (units of 1000		. 01	. 01
	books)	570	12.76	11.19
30.	Relative Library Size	569	27.68	44.13
	Variety of Curriculum	575	17.68	14.70
	Percentage of Graduates		17.00	14.70
	Going to Four-Year College	s 467	59.50	24 00
33.	Growth Rate	476	59.79	24.08
	California Location	581	.12	89.59
	Age of College	581	1.86	.33
	Placement Service	581		1.19
-	2027100		.66	. 47

The correlations among the various junior college characteristics are presented in Table 2. The unrotated matrix of the twelve factors with an eigenvalue greater than 1.00 is presented in Table 3. The factor solution for the Varimax rotation of the first six factors is given in Table 4.

Table 2
Correlations Among Junior College Characteristics

Variable	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1.	*															 -		
2.	65																	
3.	14																	
4.		-04																
. 5.			•	25														
6.	32			-22														
7.	26			-09														
8.	40	09		-15														
9.	02	07		01														
10.	22			-02														
11.	-31	-32	-22	-01	44	-20												
12.	60			-10						13								
13.	30	27	06	-06	-11	08	23	18	-01		-15							
14.	-41	-30	-08	08	27	-24	-13	-41	-12			-	-18					
15.	-29	-26	05			-17							-09					
16.	-32	-26	-05	16	31	-22	-10	-27	-21	-16			-07					
17.			09			-02	00	06	12	-04			03		•	15		
18.	-32	-31	-33	-23	53	-04	-04	-12	14	-11	54	-29	-08			14	80	
19.		-06	04		12	-16	01	-13	-03	-05	06	-13	-06	14	06	17	-17	-13
20.	08		17	57	-06	-07	-03	05	04	04	-18	13	04	-14	-04	-09	14	-36
21.	15	14		-20	-35	07	01	05	-08		-32				-01			
22.				-04			-03		-10		00	03	02	07	00	02	01	-17
23.						07			-10	00	-27	24	06	-03	04	07	04	-20
24.	23			-37							05	17	03	-25	-16	-30	02	28
25 .	07	06	19			12			08			03			-04			-01
26 .	-17		33			-13								-10	02	-07	00	-29
27.	14	10	01		-07	•		21				19	06	-37	-32	-01	-09	-11
28.	16			-14							-06			00	-09	-12	-15	00
29. 30.	03	03				-08		06			-07		•		01			
	34	35				03						34			-11			
	-38		01	50	42	-35	-08	-21	-16	-14	11	-27	-07	30	22	54	12	-01
32 . 33.	-02	-03	35			-20								00			-09	
		_				07						-12		15	14	06	-04	04
35 .		18	- 03	•	ΤΩ	-38	-02	-08	-07	-09	05	-16	07	38	80	57	23	09
	-22			1 2 T 2	~ U4 22	ΟΊ	00	15	-14	08	-03	26	15	-35		00		-06
20,	<i></i>	- 20	-15	13	43	-01	ΟŢ	- T 2	-11	-06	09	-21	-01	23	18	31	18	12



Table 2 (cont.)

Variable	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
19.	o =		-						· -									
20.	00																	
21.	-10	-27																
22.	-08	-17	-18															
23.	06	-02	- 10	-10														
24.	-37	-11	23	-16	-12													
25.	-02	01	- 96	15	-02	-07												
26.	10	25	06	-02	-02	-30	-08											
27.	-04	06	05	-03	06	-01	00	10										
28.	-08	00	03	-04	08	16	02	-18	13									
29.	13	09	01	-02	15	-19	12	-01	15	-02								
30.	-08	23	10	-09	11	15	-03	-08	02	45	09							
31.	29	15	-16	00.	12	-51	-07	19	07	-14	34	-21						
32.	15	22	-06	06	02	-26	08	39	-05	-05	11	07	08					
33.	01	-09	-03	16	-07	-01	10	-05	-15	00	-14	-11	07	07				
34.	16	-07	-04	-05	.14	-23	10	-12	00	-04	33	-15	45	-03	-06			
35.	01	21	-06	-12	13	-02	-13	12	22	-07	30	18	08	09	-27	03		
36.	10	-13	-01	10	-06	-04	02	-10	02	-03	09	-20	20	-18	05	19	-09	

Table 3 Unrotated Factor Matrix, Eigenvalues, and Communalities

	Officiated P	actor	. IVIa	יד דעי	Targ.	CIIVa.	وقاعدا	and	. 0011		10.1.1.0.1			
Var	iable	Ī	Ц	III	IV	V	VI	VII	VIII	IX	X	XI	XII	h ²
1.	Private (versus			- 1	-		.			•			•	=0
	Public) Control	76	11	16	09	-02	-06	-19	03	-01	10	-23	-21	78
2.	Degree of Reli-									- 4				
	gious Control	58	23	01	03	-07	19	-12	02	06	28	-19	-40	72
3.	Liberal Arts													
	Emphasis	16	48	-28	27	-11	-11	06	33	24	-16	09	06	63
4.	Teacher Training	g												
	Emphasis	-29	58	-16	-27	-22	-06	13	-32	-09	26	10	-07	78
5.	Technological													
	Emphasis	-65	-12	12	-38	-14	-06	-16	-10	01	01	-08	04	66
6.	Tuition	44	-25	09	11	02	-48	-05	-18	-15	03	ÖÖ	07	56
7.	Endowment/													
	Student	26	02	23	1.0	-25	10	-29	-39	22	-35	01	-10	62
8.	Operating Budget	:/												
	Student	57	01	31	-12	-09	-22	13	03	-19	-30	16	14	68
9.	Capital Income/													
	Student	17	-18	02	-15	-38	04	38	06	-06	-19	47	-26	71
10.	Scholarship													
	Funds/Student	32	09	07	05	-32	19	-30	-25	41	-15	22	06	65



Table 3 (cont.)

Var	iable	I	ш	III	IV	V	VI	VII	VIII	IX	X	XI	XII	h ²
11.	Percentage of													
	Males	-47	-34	-08	-39	-16	05	- 30	28	07	-03	-04	11	70
12.	Percentage of Ou	.t-												
	of-State Students	70	20	27	00	01	-24	15	04	-07	-07	-12	02	72
13.	Percentage of													
	Foreign Students	35	15	33	05	-33	24	-31	-07	24	0 9	02	20	63
14.	Percentage of													
	Part-Time													
	Students	-66	-03	14	44	-10	17	09	06	-12	10	-07	-07	74
15.	Percentage of													
	Students earning													
	1/2 of Expenses	-41	02	-06	33	-31	12	33	-18	01	-21	-16	22	<i>i</i> 64
16.	Total Enroll-													
	ment	-63	26	50	18	14	-02	-04	14	05	11	-02	-06	80
17.	•													
	of Students	-13	10	30	-05	-37	-30	47	05	31	01	-17	14	71
18.													- 4	
	Orientation	- 38	-62	24	-40	-17	00	-10	18	09	-14	-05	-06	84
19.	Intellectual			- 4			- 1	- 4						
0.0	Orientation	-27	32	-04	03	08	16	-26	-13	-29	-24	15	-34	57
20.	Social								- 4					
0.1	Orientation	13	55	-21	-34	-33	00	25	-14	-10	32	-08	-12	80
21.	Conventional		0.1	0.7	4.0	4.0				- 4				
0.0	Orientation	29	-01	-07	43	49	28	23	-01	34	08	18	09	80
22.	Enterprising	00	00	0.4	0.0	a ~	50	2.4	0.5	3.4	2.0	0.0	0.1	
2.2	Orientation	-02	-02	-04	33	-15	-50	-34	05	-14	20	02	26	63
<i>43.</i>	Artistic	1.0	20	2.2	1.0	1.0	0.0	0/	3 F	2 "	4.4	2.1	00	
2.4	Orientation	13	28	32	10	10	00	06	- 15	-35	-44	-31	09	67
44.	Homogeneity of	20	50	1 1	15	0.4	10	2.4	00	10	1.4	00	00	
25	Environment	39	-59	ТТ	-15	04	12	24	80	19	14	-09	-02	68
45.	Percentage of	D 02	07	1.4	20	26	21	06	22	00	00	20	26	<i>(</i> 1
26	Faculty with Ph. Percentage of	כט.ע	07	14	40	-30	-21	-06	23	00	09	30	-26	61
20.	Faculty with													
	Masters	_ 08	1.2	- 53	_ 10	ΛQ	_ ∩0	-01	_ 02	20	-13	09	23	66
27	Percentage of	-00	40	- 33	-10	0 9	-09	01	-02	20	-13	09	23	00
<i>ω</i> 1 .	Faculty which													
	are Full-Time	23	19	1 Q	_ 32	34	10	-18	_01	- O 1	08	48	13	65
2.8	Faculty-Student	45	17	10	- 54	JŦ	- 10	-10	- O I	-01	VO	40	13	05
40.	Ratio	2.9	-11	20	<u>ი</u> 2	_15	<i>4</i> .1	-04	12	_47	19	25	34	78
29.	Library Size	-13		54	01		- 03		28	07	05	01		64
	Relative	<i>پ</i> بد	10	<i>J</i> 1	O 1			O T	40			0.1	04	O-E
_	Library Size	53	16	10	-10	-24	44	04	12	-18	16	-09	29	74
			~ •					V 1	alla find	10	10	• /	<i>u</i> /	1 1



Table 3 (cont.)

Var	iable	I	П	III	IV	v	VI	VII	VIII	IX	X	XI	XII	h^2
	Variety of Curriculum Percentage of Graduates Going	-60	51	20	-12	05	02	-02	-15	-07	00	07	07	72
	to 4-Year													
	Colleges	-06	42	-41	03	-18	07	-18	44	-02	-18	-06	14	67
33. 34.		-11	-18	-14	40	-26	-09	-28	-02	-07	13	-17	-04	43
	Location	-44	26	54	11	05	16	07	18	08	-05	07	-11	64
35. 36.	Age of College Placement	23	39	19	-48	20	-06	-12	13	21	-01	-27	06	68
	Service	-37	-07	29	13	02	-12	-01	-36	14	31	14	19	55
Eige	envalue	5.70	3.44	2.39	2.08	1.70	1.56	1.52	1.32	1.29	1.21	1.18	1.07	

Var	riable	A Cultur- al Afflu- ence	.B* Techno- logical Speciali- zation	C Size	D* Age	E* Trans- fer Em- phasis	F* Busi- ess Orien- tation	h ²
	Private Control	47	-41	-22	37	-09	23	63
۷.	Degree of Religi	lous 47	2.2	17	2.2		•	
3.	Liberal Arts	47	-33	-17	23	. 11	-03	43
•	Emphasis	06	-37	-03	-06	49	21	43
4.	Teacher Trainin	.g				-/	2.	13
_	Emphasis	-05	24	22	08	68	00	58
5.	Technological							
	${f Emphasis}$	-28	67	26	-09	02	-09	61
6.	Tuition	-01	-17	-29	24	-30	49	50
7.	Endowment/						•	
	Student	42	-05	04	00	-08	13	20
8.	Operating Budge							
	Student	36	-09	-12	45	-17	32	49
9.								
1.0	Student	32	26	-23	-03	-04	10	23
10.	Scholarship Fund							
	Student	48	-05	- 0 9	-02	07	05	25



-16-

Table 4 (cont.)

<u>V</u> ar	riable	A	B*	С	D*	E*	F*	h ²
11.	Percentage of				-			
	Males	-21	64	- 06	-16	-07	-19	51
12.	Percentage of						- •	-
	Out-of-State							
	Students	39	- 34	-10	52	-06	35	67
13.	Percentage of							
	Foreign Students	64	- 06	10	06	-02	07	43
14.	Percentage of							
	Part-Time							
	Students	-17	08	50	-64	-05	-02	69
15.	Percentage of							,
	Students earning							
	1/2 of Expenses	00	09	20	- 56	14	06	38
16.	Total Enrollment	-22	09	83	-13	-04	03	76
17.	Aptitude Level							
	of Students	12	- 30	23	03	06	42	34
18.	Realistic							
	Orientation	-11	73	-02	-09	-45	- 08	77
19.	Intellectual							
	Orientation	-09	-05	28	- 08	27	-19	21
20.	Social Orientation	25	15	-06	23	67	02	59
21.	Conventional							-
	Orientation	-02	-68	-03	-05	-22	-26	59
22.	Enterprising							
	Orientation	-17	-10	-03	-15	02	57	38
23.	Artistic Orientation	16	-22	31	21	00	08	22
24.	Homogeneity of							
	Environment	21	80	-40	12	- 56	-11	55
25.	Percentage of							
	Faculty with Ph.D.	14	00	08	-16	05	53	33
26.	Percentage of					•		
	Faculty with							
	Masters	-27	-14	-12	07	65	- 09	54
27.	Percentage of							
	Faculty which are							
	Full-Time	-08	- 08	06	60	-02	- 02	37
28.	Faculty-Student							
	Ratio	50	-04	-03	-04	-20	-20	33
	•	11	- 07	67	27	09	08	56
30.	•							
	Size	69	-13	-13	15	08	-20	58
31.	Variety of							
	Curriculum	-21	21	66	01	37	-10	68



Table 4 (cont.)

Var	iable	A	B*	С	D*	$\mathbf{E}^{m{st}}$	F *	h ²
32.	Percentage of Graduates Going to Four-Year							
	Colleges	01	- 08	- 07	-14	60	-05	39
33. 34.	•	-01	-05	-10	-47	-03	26	30
	Location Age of	04	08	75	- 08	- 05	-07	58
	College	09	03	13	67	20	-11	52
36.	Placement Service	-16	14	37	-15	-18	13	25

^{*}Reflected factor

Finally, in order to compare the factors obtained in this study with the factors Astin (1962) obtained for four-year colleges, the Coefficient of Congruence (Tucker, 1951) was computed between each rotated factor for this study and each of Astin's rotated factors. These calculations involved only the variables common to the two studies. Results are shown in Table 5, with Astin's factors rearranged so that, to the extent possible, highest Coefficients of Congruence are in the diagonal.



Table 5
Similarity Between Factors for Junior Colleges
and for Four-Year Colleges

	Junior College Factors											
Four-Year College Factors	Cultur - al Afflu - ence		Size	Age	Transfer Empha- sis	Busi- ness Orien- tation						
Affluence	. 5987	.0108	.0658	.1968	1304	.4580						
Realistic Orientation	1971	.6639	.1265	0759	5135	1808						
Size	0865	. 3287	.7236	.1098	.0815	.0654						
Masculinity	3888	. 3677	.1195	3507	2957	2998						
Homogeneity	.1394	.2877	5656	.0277	4278	1736						
Public vs. Private Control	.4410	4806	2397	. 3302	1921	. 3542						

Note. --Four-year college factors obtained from study by Astin (1962).



Discussion

The rotated factors are briefly described and interpreted below:

Factor A. The variables with high loadings on this factor describe a college which has a large number of library books per student, relatively many foreign and out-of-state students, and many faculty members relative to the number of students. It is privately or religiously controlled, and is relatively well financed. This pattern looks like the factor named Affluence by Astin (1962) in his study of four-year colleges. In the present study, however, the factor appears to involve facilities, such as the library and the faculty, more than financial wealth. An appropriate title, therefore, would be Cultural Affluence.

Factor B. Loadings on this factor describe a college with a technological emphasis and many students in technical programs, with many male students, with few students studying such fields as education and secretarial work, and with few out-of-state students. It is a public school which does not emphasize the liberal arts. A good title would be Technological Specialization.

Factor C. Colleges that would score high on this factor have large enrollments; large libraries; a varied, heterogeneous curriculum; many part-time students; and a placement service. The best title for this pattern would probably be <u>Size</u>. The college scoring high would probably be an urban-centered, open door comprehensive college, with a strong emphasis on continuing education. In addition, one would expect the high scoring college to be characterized by an impersonal atmosphere, few

personal contacts between students and faculty, several highly organized student subcultures, and a relatively clear status hierarchy of social
groups.

California junior colleges are distinguished from other colleges by a high loading on this factor. It is interesting, and probably contrary to popular belief, that California location failed to load substantially on any other factor.

Factor D. Loadings represent a college which is old, which has faculty and students who are both full-time, which has few working students but relatively many out-of-state students, which has not grown, which spends relatively much money per student, and which is a private school. An appropriate title would be Age. The high scoring college would probably resemble a small, four-year, liberal arts college. It would likely have many traditions, a residential student body, and an administration which conceived of its role as acting in loco parentis. Such a college would also be likely to have a selective admissions policy, although not necessarily one that emphasizes academic aptitude. An alternative title, therefore, might be Traditional Exclusiveness.

Factor E. Colleges characterized by the variables loading high on this factor emphasize teacher training and liberal arts and offer a heterogeneous environment. They have many students studying such fields as education, many graduates who go on to four-year colleges, and many faculty members with masters degrees. A common denominator to most of these variables is a requirement for further education beyond junior



college, and, accordingly, many graduates of high scoring colleges seek advanced training. The best title for this factor would probably be Transfer Emphasis.

One would expect the colleges scoring <u>low</u> on this factor to be terminal colleges primarily concerned with practical vocational training, making little effort to model their curriculum on what has been traditional for four-year colleges. The high scoring college would be concerned more with pre-professional, exploratory training.

Factor F. The high scoring college on this factor has relatively many students in fields characterized as Enterprising, relatively many faculty members with Ph.D.'s, high tuition, bright students, and many out-of-state students. In addition, it spends an above average amount of money per student. The interpretation of this factor is less manifest than was the case for the preceding factors. As an aid in the interpretation, colleges with high scores on the Enterprising Orientation variable were identified. Two types of college appeared to predominate. First, small private colleges on the East coast with many students studying sales and retailing, and, second, large public colleges on the West coast with many students studying management. The trait common to these two kinds of colleges appears to be an emphasis on providing students with a business skill having immediate utilitarian value. This factor, therefore, might best be named Business Orientation.

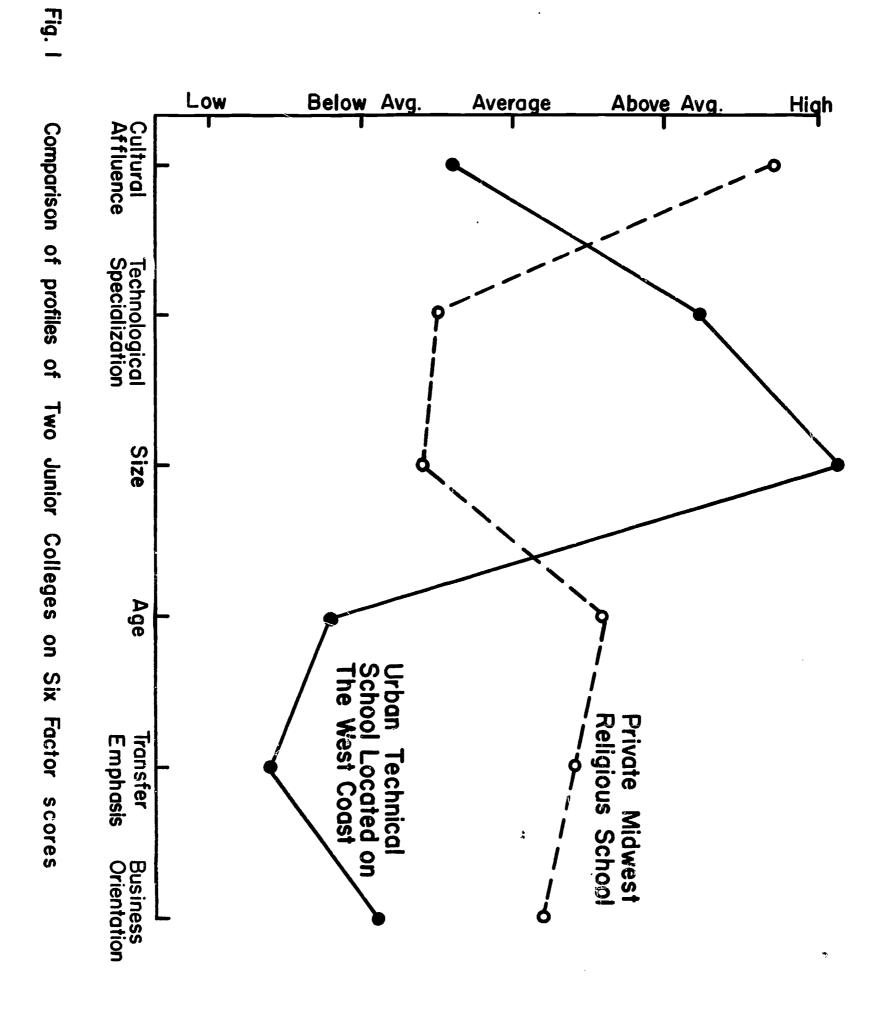
The comparison of the factors for this study with Astin's (1962) factors for four-year colleges indicates some similarity, but in no case

was the <u>Coefficient of Congruence</u> high enough to justify considering factors identical. In the present study, of course, no attempt was made to use Astin's solution as a criterion in the rotation of the junior college factors. On the other hand, an independent analytic rotation is probably a more stringent test of equivalence of factors than is using one solution as a criterion for the rotation of another solution, and independent analytic rotations do produce good matches between rotated factors in some cases (Richards, 1965a, 1965b). Therefore, these results appear to mean that junior colleges are different from four-year colleges, and that it would not be appropriate to apply a classification scheme developed for one type of college to the other type.

The factors obtained in this study make it possible to describe and compare junior colleges in terms of factor scores. To illustrate this procedure the profiles of estimated factor scores for two junior colleges are compared in Figure 1. Two colleges were selected with the expectation that they would show markedly different profiles. One college was a private, religious school in the Midwest, and the other was a public, urban, technical school on the West Coast. Figure 1 demonstrates that the profiles are indeed quite different. The private Midwestern school is more affluent in cultural facilities, is not characterized by technological specialization, is smaller, and is older. It puts more emphasis on transfer to a four-year college, and it tends to provide students with a business skill.

The primary goal of this study was to provide a brief profile which can be used to characterize junior colleges, and which will make possible





more efficient research on the effects of junior colleges on their students. It seems clear that this goal was attained, for the original 36 scores were reduced to six factors which are reasonably clear and easily interpreted. The reduction to six representative factors provides a simple, economical set of items for assessing junior college environments in research on the ways in which different colleges affect student accomplishment and growth. We hope, however, that this profile will be regarded only as a first step, that junior colleges will now receive the attention from researchers that is warranted by their importance to society, and that this attention will in turn lead to better descriptive schemes, better studies of junior college effects, and, ultimately, to better junior colleges.

References

- ACT Technical Report. Iowa City: American College Testing Program, 1965.
- Astin, A. W. An empirical characterization of higher educational institutions. Journal of Educational Psychology, 1962, 53, 224-235.
- Astin, A. W. Further validation of the Environmental Assessment Technique. Journal of Educational Psychology, 1963, 54, 217-226.
- Astin, A. W. Who goes where to college. Chicago: Science Research Associates, 1965. (a)
- Astin, A. W. Recent studies of college environments. Paper read at American Personnel and Guidance Association, Minneapolis, April, 1965. (b)
- Astin, A. W., & Holland, J. L. The Environmental Assessment Technique: a way to measure college environments. <u>Journal of Educational Psychology</u>, 1961, 52, 308-316.
- Clark, B. R. The open door college. New York: McGraw-Hill, 1960.
- Gleazer, E. J., Jr. (Ed.) American junior colleges. Washington, D.C.:

 American Council on Education, 1963.
- Harris, C. W. Four models for factor analysis. Paper read at American Psychological Association, Los Angeles, September, 1964.
- Kaiser, H. F. The Varimax criterion for analytic rotation in factor analysis.

 Psychometrika, 1958, 23, 187-200.
- Kaiser, H. F. The application of electronic computers to factor analysis.

 Educational and Psychological Measurement, 1960, 20, 141-151.



- Kaiser, H. F. Psychometric approaches to factor analysis. In Proceed-<u>ings of the 1964 invitational conference on testing problems.</u>

 Princeton, New Jersey: Educational Testing Service, 1965.
- Knoell, Dorothy M., & Medsker, L. L. <u>Factors affecting performance</u>.

 of transfer students from two- to four-year colleges. Berkeley,

 California: Center for the Study of Higher Education, 1964.
- Medsker, L. L. The junior college: progress and prospects. New York:

 McGraw-Hill, 1960.
- Pace, C.R., & Stern, G. G. An approach to the measurement of psychological characteristics of college environments. <u>Journal of Educational</u>

 Psychology, 1958, 49, 269-277.
- Prudential Insurance Company of America. Facing facts about the two-year college. Author, 1963.
- Richards, J. M., Jr. Life goals of college freshmen. Paper read at

 American Psychological Association, Chicago, 1965. (a)
- Richards, J. M., Jr. A factor analytic study of the self-ratings of college freshmen. Iowa City: American College Testing Program, 1965. (b) Sanford, N. (Ed.) The American college. New York: Wiley, 1962.
- Tucker, L. R. A method of synthesis of factor analysis studies. Personnel Research Section Report, No. 984. Washington: Dept. of the Army, 1951.

Footnotes

¹The authors are indebted to Max R. Raines, Renee M. Huntley, and H. Bradley Sagen for their critical reading of the manuscript.

 $^2\mathrm{All}$ computations for this study were carried out at the University of Utah Computer Center.



College	Cul- tural Afflu- ence	Techno- logical Speciali- zation	Size	${f Age}$	Transfer Em- phasis	Busi- ness Orien- tation
Alabama						
Daniel Payne College	6	3	3	7	Aste	/ str
The Marion Institute	6	8	3 4	7	4*	. 6%
Sacred Heart College	9	4	6	1	5	4
Snead Junior College	6	4	5	4	8	6
Walker College	6	5	5 .	8 5	6 8	5 5
Alaska						
Anchorage Community College	5	5	6	1	5*	5*
Juneau-Douglas Comm. College	3	4*	3	1	5*	6*
Ketchikan Community College	5	3*	1 .	2	4*	5*
Palmer Community College	5*	5*	6*	3*	3*	5*
Sitka Community College	5	3	1	1	2*	5*
Arizona						
Eastern Arizona Junior College	4	5	6	8	5*	6
Phoenix College	3	5	9	4	8	6
Arkansas				•		
Fort Smith Junior College	5	7	6	6	7	5
Southern Baptist College	7	3,	3 .	6	3	4
California			- 1			
Allan Hancock College	4	5 *	7	5	5*	4*
American River Junior College	1	6	8	3	4*	5
Antelope Valley College	5	6	7	4	4*	1
Bakersfield College	2	5	8	6	6	6
Barstow College	5	6	5	1	3	1
Cabrillo College	5	4	5	3	3	3
Cerritos College	3	6	8	2	9	4
Chabot College	5	5	6	3	5	3
Chaffey College	4	5*	8	3	4*	3
Citrus College	5	6	8	4	5	2
City College of San Francisco	7	5	9	5	5	5
Coalinga Junior College	5	5	6	4	5	4
Cogswell Polytechnical College	8	9	1	7	1	2
College of the Desert	4	5	7	3	5 *	8
College of Marin	3	5*	8	7	9	5 *
College of San Mateo	7	5	9	6	5	5

¹An * indicates that the mean score was substituted for one or more missing variables in the computation of the factor score.

	Cult. Affl.	Tech. Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
California continued		ar.				
College of the Sequoias	5	5	7	6	2	2
College of the Siskiyous	4	5	7	3	5	2
Compton College	3	6	8	4	5 ·	2
Contra Costa College	5	6	8	3	<i>3</i>	2
Deep Springs College	9*	5 %	1	9	4*	9*
Diablo Valley College	5	5*	8	3	5	9* 3*
East Los Angeles College	4	5	9	2	G G	_
El Camino College	5	6	9	4	9	4
Foothill College	3	5	8	2	7	6
Fresno City College	5	6	8.	1	<i>(</i>	6
Fullerton Junior College	3	6	9	4	5	<i>5</i>
Glendale College	2	5	9	6	5 7	. 5
Grossmont College	3	5	8	7	7	3
Hartnell College	6	6	7	2	7	6
Imperial Valley College	5*	5	7*	6	([5
Lassen College	5	8	5	6	5* 4	6
Long Beach City College	2	7		5	4	5.
Los Angeles City College	7	7 5*	9	<i>3</i> /	4*	1
Los Angeles Harbor College	5	,	9 8	5	7	5*
Los Angeles Metropolitan Coll.	5	6 3	0	.5	5	3
Los Angeles Pierce College	3	5	,	2	2	3
Los Angeles Trade-Tech College	3	9	9	4	5	4
Los Angeles Valley Junior College	-	7	9	4	1	_ T
Menlo College	~. O	5 7'	0	3	4	5
Modesto Junior College	7	<i>(</i> 4	5	7	5	7*
Monterey Peninsula College	4	6	9	6	3	4
Mt. San Antonio College	<i>1</i> .	5 7	7	3*	8	5
Napa Junior College	''	(9	3	5	5*
Oakland City College ²	5 7	5	(2	4	3
Oceanside-Carlsbad College	7	8	9	3	5	3
Orange Coast College	2	6	6	3	5	5
Pacific College	2	5	9	3	5	4
Palo Verde College	9	4	4	5	9	7
	1	3	5	2	5*	5
Palomar College	4	5	8	3	6	5
Pasadena City College	6	5	9	5	6	6
Porterville College	5	6	6	5	5	3
Reedley College	3	6	6	6	5	2
Riverside City College	3* -	5 *	7	7%	4*	4*
Sacramento City College	5	5	9	6	4	5
San Benito College ³	6	5	5	6	2	3

² Now separated into two colleges, Merritt College and Laney College.



³Now Gavilan College.

	Cult. Affl.	Tech Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
California continued						
San Bernadino Valley College	3	6	9	3	4.	3
San Diego Junior College	1	7	9	4	5 %	5
San Joaquin Delta Junior College	4	5	8	5	6	4
San Jose City College	5	6	9	4	5	. 5
Santa Ana College	4	6	8	5	5	4
Santa Barbara City College	4	5	6	5	5*	2
Santa Monica City College	2	6	9	4	4	3
Santa Rose Junior College	4	5	8	8	5	4
Shasta Junior College	5	5*	7	5	4*	5*
Sierra College	3	6	6	6	4	3
	ے ج	7	, ,	2	5*	3
Southwestern College	<i>3</i>	ر 5	6	<i>Z</i>	8	3
Taft College	-	_	6	5 5		3
Vallejo Junior College	5	5 7	6		5	.⊃ 4
Ventura College	4	(8	8	3	4
Victor Valley College	5	6	5	<u> </u>	2,	4
Yuba College	5	6	8	5	6	3
Colorado						
Mesa College	4	5	7	8	7	5
Northeastern Junior College	4	7	5	7	7	2
Otero Junior College	7	5	4	7	7	5
Rangely College	5	5	1	4	5*	6
Trinidad State Junior College	5	7.	6	8	5	2
Connecticut						
Hartford College for Women	7	1	3	4	2.	g
Hartford State Tech Institute	3	9	2	6	2	5
Junior College of Connecticut	6	4	9	4.	8 .	8
Manchester Community College	5*	5*	5*	3*	5*	6 *
Mitchell College	6	6	5	4	4	4 9
New Haven College	6	8	6	3	2	8
Norwalk Community College	3	4	3	1	2 4*	9
Norwalk State Tech Institute	2	9	4	2	2*	5
	_	3	<u>.</u>	<i>2</i> 5		_
Quinnipiac College	6	_	6	-	4	9
Silvermine College of Art	1	2	Ţ	5	2*	4
Delaware						
Wesley College	6	4	4	6	4	8
District of Columbia						
Immaculata College of Washington	n 8	3	4	6	3	7
Mount Vernon Junior College	8	1	3	7	5	7
	-	-	_	•	,	•

College	Cult. Aff1.	Tech. Spec.	Size	$_{ m Age}$	Tfr. Emp.	Bus. Otn.
Florida		`				
Brevard Junior College	4	5*	7	2	5	6*
Carver Junior College 4	<u>4</u> ,*	3*	3*	<u>ટ</u> સ	3	_
Central Florida Junior College	5	5	6	4	5	2
Chipola Junior College	4	5	6	5	8	6
Daytona Beach Junior College	3	7	6	3	8	
Edison Junior College	3	3	4	3	5*	5 6
Florida College	7	4	5	5	5*	7
Gibbs Junior College	5	2.	6	5	5	1
Gulf Coast Junior College	4	6	6	4	7	4 6
Hampton Junior College	$\frac{-}{4}$	2	3	4.	4	
Indian River Junior College	5	6	5	1 4	7	2 6
Jackson Junior College	5	3*	1	5	<i>1</i> 4%	-
Johnson Junior College	2	2	2	2	4*	4*
Junior College of Broward County	, 4	3	5	2	4	3 6
Lake City Junior College and		3	3	5	****	0
Forest Ranger School	4	6	3	1	3	<u></u>
Lake Sumter Junior College	5	5	4	2	5 5*	5
Lincoln Junior College	4	3*	1	3	5*	8
Manatee Junior College	3	5	7	<i>3</i>		4* /*
Miami-Dade Junior College	4	5	8	<i>3</i>	5 5*	6* 7
North Florida Junior College	5*	3	0 1	4	5 *	7
Orlando Junior College	5 5	6	6	4	4	4
Palm Beach Junior College	3	5*	7	4 5*	8	6
Pensacola Junior College	3	6	ι 8		6	5*
Roosevelt Junior College	4	2	O 2	4	9	8
Rosenwald Comm. Junior College		2	1	4	5	3
St. Johns River Junior College	3	3	1.	.5 4	3	2,
St. Petersburg Junior College	2	5	8	4	3	3*
Suwannee River Junior College	<i>2</i> .	4	3	6	5	.5
Volusia County Comm. Jr. Coll.	5	4 3	_	4	4	2
Washington Junior College	4	2	6	1	2	7
Was a real part of the control of th	-	2	•	4	3	3
Georgia						
Abraham Baldwin Agr. College	3	8	5	9	3	6
Andrew College	8	4	4	7	5	6
Augusta College	2	4	6	5	5*	6
Birdwood Junior College	7	3	2	3	7	3
Brewton Parker College	6	3	3	7	5	3
Columbus College	4	5	5	4	4	6
Emmanuel College	8*	3	4	6 *	<u>-</u> 4	2
Emory at Oxford	6	4*	3	8	5	2 7*

⁴Now merged with Brevard Junior College

	Cult.	Tech. Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
Georgia continued	6	7	3	4	5	3
Georgia Military College	6	3	3	5	5	3
Gordon Military College	4	7	6	7	4	4
Middle Georgia College	7	4	5	6	7	5
Norman College	6	4	5	6	8	4
Reinhardt College	5	4	5	8	7	7
South Georgia College	5	9	5	5	1	4
Southern Technical Institute	6	3	6	8	7	6
Young Harris College	O	3	O	O	•	·
[daho	_	,	0		5 *	6
Boise Junior College	5	6	8	6 .		6
North Idaho Junior College	6	7	5	6	5	6
Ricks College .	8	3	7	8	5	5
Illinois					700	_
Belleville Township Jr. College	3	5*	7	2	7	5
Black Hawk College	3	5	6	3	8	5
Bloom Township Comm. College	3.	7	5	2	5	7
Canton Community College	3	5	4	2	4	2
Central YMCA Community College	8 s	3	6	1	4*	9*
Centralia Junior College	6	5	5	5	5	5
Chicago City Junior College			·			
Amundsen Branch	4	4.	6	1	8	6*
Bogan Branch	3	5	7	1	8	6*
Crane Branch	5	4	8	4	5*	6*
Fenger Branch	· 6	4	6	1	7	4
Loop Branch	5*	4	7	1	5	7*
Southeast Branch	2	5	7	2	5	6×
Wilson Branch	5*	4	8*	4	5	6 *
Wright Branch	4	5	9	5	5*	6*
Danville Junior College	2	4	5 ,	2	5	4
Elgin Community College	2	5	5	2	6	5
Freeport Community College	6	5	4	2	5*	4
Joliet Junior College	1	6*	7	5	5	5*
Kendall College	9	4	.3	6	5	7*
La Salle-Peru-Oglesby Jr. Coll.	4	5	6	4	6	3
Lincoln College	7	4*	5	7	6	7*
Lyons Township Junior College	2	6	6	4	5	5*
Monticello College	9	1	6	8	7	8
Morton Junior College	3	6	7	4	6	6
Mt. Vernon Community College	2	5	3	3	5	3*
St. Bede Junior College	9	7	5	8	· 7	6
Southeastern Illinois College	4	2	2	3	4*	3



Junior College Factor Scores -- Page 6

College	Cult. Affl.	Tech. Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
Illinois continued						
Springfield Junior College	6	5	6	5	9	5
Thornton Junior College	3	6*	6	6	4	6 *
Trinity Christian College	8	3	1	4	4	. 8
Wabash Valley College	2	5	3	1	5	4
Indiana						
Vincennes University	5	5	6	7	5	6
Iowa						
Boone Junior College	5	9	1	6	2	1
Burlington Community College	2	8	5	5	5	2
Centerville Community College	3	9	1	5	4	3 %
Clarinda Community College	3	7	1	6	4	2
Clinton Junior College	4	5*	6	3	5	4%
Creston Community College	6	5	4	5	5	5
Eagle Grove Junior College	4	6*	4	3	5	3 %
Ellsworth College	2	5	5	6	6	6
Emmetsburg Comm. College	5	5	2	4	8	3
Estherville Junior College	5	4*	2	5.	5	5
Fort Dodge Community College	4	6*	7	7	8	4
Grand View College	6	3	5	5	4	4
Keokuk Community College	3	6	5 ·	4	8	4
Marshalltown Comm. College	4	4 *	3	6	5	- 4*
Mason City Junior College	$\frac{-}{4}$	6	6	6	5	2*
Mt. St. Clare College	7	2*	5	9	3	- 7*
Muscatine Community College	4	5 *	- .	. 5	6	3*
Ottumwa Heights College	9	1	4	7	5	2
Waldorf College	7	4	5	9	5	5
Webster City Junior College	3	5	4	5	4	5
Kansas						
Arkansas City Junior College	6	7	6	6	5	3
Butler County Junior College	5	6	5	6	8	3
Central College	7	3*	2	6	5	5*
Chanute Junior College	5	5	5	4	5	3*
Coffeyville College	6	6	6	6	6	4
Dodge City College	5	5	5	5 5	6	1
Donnelly College	5	$\frac{3}{4}$	5	4	8	7
Fort Scott Junior College	5	5	5	5	7	3
Garden City Junior College	5	6	6	6	6	6*
Hesston College	8	3	5	6	5	7
Highland Junior College	4	5 5	5	4	, 5	3
Hutchinson Junior College	3	6	7	7	6	1



College	Cult. Affl.	Tech. Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
Kansas continued				· · · · · · · · · · · · · · · · · · ·		
Independence Community College	3	6	6	5	0	,
Iola Junior College	5	5*	5	_	8	1
Kansas City Kansas Junior Coll.	3	5**	5	5 7*	4	5*
Miltonvale Wesleyan College	8	3	5	7×	7	5*
Parsons Junior College	6	5 5	2	6	4	3
Pratt County College	5		7	6	5	3
St. John's College	8	6 * 2	4 5	5 6	8 6	3 * 5
Kentucky						_
Alice Lloyd Junior College	8	2 %	4	_		
Lees Junior College	,	3 *	4	7	6	6×
Lindsey Wilson College	6	4 *	2	9	5	4*
	6	5	5	8	6	5
Midway Junior College	9	1	3	6	5	5
Paducah Junior College	2	5	5	4	5	6*
Southeastern Christian College	8	· 3	2	5	8	3
St. Catherine Junior College	7	3*	3	5	4	4*
Sue Bennett College	7	4	4	8	6	3
Maine						
Westbrook Junior College	6	1	4	7	4	8
Maryland					,	
Allegheny Community College	5	7.	2	3	4%	7
Anne Arundel Community Coll.	1	6	3	1	7*	0
Baltimore Junior College	3	5	6	3	5	8
Catonsville Community College	3	7	3	3	9	8
Charles County Comm. College	4	6*	4*	1	•	8
Essex Community College	4	6	3	T	5 *	6*
Frederick Community College	6	3	4	<i>2</i> ,	<i>(</i>	9
Hagerstown Junior College	5	5	5	1	5	7
Harford Junior College	3	,	_	4	7	6
Montgomery Junior College	3	6	3	1	7	9
Prince George's Comm. College	2	6	<i>(</i>	4	7	7
St. Mary's College of Maryland		6	4	2	5	9
Villa Julie College	5 7	<i>2</i> 1	4	7	3	5
, illa dalla college	•	1	2	4	1	6
Massachusetts						
Bay Path Junior College	7	1	4	5	2.	6
Becker Junior College	6	2	4	8	1	7
Berkshire Community College	4	5	3	4	4	4
Bradford Junior College	9	2*	5	6	-x	0 7*
Cambridge Junior College	9	4*	1	5	5	•
Cape Cod Community College	2.	3	3	4	, 5 · 4*	9* 9
-		-	_	-	T •	7

ERIC

AFUII TOXIL Provided by ERIC

College	Cult. Affl.	Tech. Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
Chamberlayne Junior College	6*	4	6*	6	4 *	8
Dean Junior College	6	5	5	7	5	7
Endicott Junior College	7	3	6	7	5	9
Fisher Junior College	7	1	3	5	2	5
Franklin Inst. of Boston	7	9	3	6	1	· 5
Garland Junior College	8	1	3	7	3	6
Greenfield Community College	2	3	3	1	4*	7
Holyoke Community College	1	5	5	2	5	9
Lasell Junior College	6	1	5	6	3	7
Leicester Junior College	7	4	2	6	4	9
Mass. Bay Community College	3	4	4	5*	<u>4</u> %	6
Mount Ida Junior College	6	3	4	8	5	9
Newton Junior College	5	5*	4	4	4	9
Northern Essex Comm. College	3	3. 4	3	4	4*	8
Pine Manor Junior College	8	 2*	3	7	4	8*
Quincy Junior College	2	2	3	2	4	_
Wentworth Institute	,		,	,	_	9
	6 4	9	6	6	3	5
Worcester Junior College	6	8	6	4	4	4
Michigan						
Alpena Community College	5	6	6	4	7	5
Delta College	4	5	8	3	5	8
Flint Community Junior College	5	6	9	6	7	7
Gogebic Community College	5	7	5	5	7	4
Grand Rapids Junior College	2	5 [']	8	6	8	5*
Henry Ford Community College	3	7	8	3	5	6
Highland Park College	3	5*	7	7	8	5*
Jackson Junior College	6	7	6	6	3	5*
Kellogg Community College	3	5	6	3	5 %	5
Lake Michigan College	3	5	6	4	5	4
Muskegon County Comm. College	e 2	7	6	6	5 %	5
Northwestern Michigan College	4	4	6	4	7	5
Port Huron Junior College	8	5	7	6	9	4
Suomi College	7	3	3	6	5	6
Minnesota						
	.	_	-	~		,
Austin Junior College	5	5	5	5	5	6
Bethany Lutheran College	9	4	5	6	7	5
Brainerd Junior College	3	4	4	6	7	4
Ely Junior College	4	4	5	6	8	3
Eveleth Junior College	6	5	5	5	9	2
Fergus Falls State Junior Coll.	4	3	3	3	7	4
Hibbing Junior College	4	5	6	6	4*	5
Itasca Junior College	5	5	5	5	5	5



College	Cult. Affl.	Tech. Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
Minnesota continued						
Rochester Junior College	5	6	6	7	5	3
Virginia Junior College	5	5	6	7	9	2
Worthington Junior College	3	7	5	5	5	. 1
Mississippi						
Clarke Memorial Junior Coll.	6	4*	3	7	6	6
Coahoma Junior College	3	3	3	4	4*	1
Copiah-Lincoln Junior College	5	6	6	7	5*	3
East Central Junior College	4	5	5	8	4:	5
Gulf Park College	9	2*	3	8	5	5 5*
Hinds Junior College	4	4 *	7	8	4•	
Holmes Junior College	5	6	5	.9	6	5
Itawamba Junior Gollege	3	6	6	5	<i>(</i>	5
J.P. Campbell College	8	3	3	,	6	2
Jones County Junior College	· 3	5	6	6	'1	5
Mary Holmes Junior College	6	3	6 2	8	(2
Meridian Junior College	4	5 5		5	6	1
Mississippi Delta Junior College			<i>(</i>	3	6	4*
Natchez Junior College	5	5 2*	5	9	6	2
Northeast Mississippi Jr. Coll.		3 *	<u>.</u>	7.	5	6×
Northwest Mississippi Jr. Coll.	5	5	. 5	6	5	3
Northwest Mississippi Jr. Coll.	3	6	6	9	5	3
Pearl River Junior College	4	6	6	8	5	6
Perkinston College	4	5.	6	7	9	4
Prentiss Normal & Ind. Inst.	6	8	2	4	3	1
Saints Junior College	9	3	3	9	3	1
Southeastern Baptist College	7	5*	3	4	2*	3*
Southwest Mississippi Jr. Coll.	5	. 3	3	9	2	3
T. J. Harris Junior College	5	5	4	3	4	1
Utica Junior College	3:	4	3	7	4*	1
Wood Junior College	8	5*	4	7	7	4*
Missouri						
Christian College	7	1	6	8	E %	/ 1/4
College of the School of the	•	1	O	O	5*	6*
Ozarks	6	5	4	4	A sta	_
Cottey College	8	-	6	4	4* -	7
Hannibal-LaGrange College	ა 7	2*	4	8	5	7*
Joplin Junior College ⁵	3	5 =	6 4	(6	6
Junior Coll. of Flat River		5	6	5 5	8	3
Kemper Military School & Coll.	4	5 5*	6	5	5	5*
Metropolitan Jr. College of	1	5 *	2	6	7	5*
Kansas City	3	6	8	5	. 8	5*

⁵Now Jasper County Junior College



College	Cult.	Tech. Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
Missouri continued	•					
Moberly Junior College	5	5*	4*	5	5*	5*
Southwest Baptist College	7	4	6	8	9	4
St. Joseph Junior College	3	5	6	7	8	3
Stephens College	7	2*	8	8	5	· 7 ¾
Trenton Junior College	5	7	3	5	5	1
Wentworth Military Academy	9	7	4	8	4	8
Montana						_
Custer County Junior College	7	4.*	6	3	5	1
Dawson County Junior College	5	4	4	3	7	5
Nebraska					_	4.4-
Fairbury Junior College	4	6*	5	5	7	4*
McCook College	5	5	4	7	5	5
Norfolk Junior College	3	5	4	6	5	2
Scottsbluff College	4	5	5	6	5	4
New Hampshire			,	•	•	,
Colby Junior College	7	1	6	8	3	6
New Jersey			,		-	0
Centenary College for Women	7	3	6	8	5	8
Trenton Junior College	3	8.	5	4 .	4	5
Union Junior College	5	7	6	4	4	•
New Mexico			,		5.1.	T 1/4
New Mexico Military Institute	9	7*	6	9	5*	5*
New York		_	4	2	E */	7
Adirondack Community College	4	5	4	3	5 *	8
Auburn Community College	3	5	6	3	4 3	0
Bennett College	8	1	4	6	3	7
Briarcliff College	8	2	5	6	3 4	7
Bronx Community College	7	6	(2	2	6
Broome Tech Comm. College	4	7	6	4	3	9
Cazenovia College	7	1	4	6	8 .	7 5
Concordia Junior College	7	<u> </u>	5	8 5	4	7*
Corning Community College	5	6* 4	5	5 4	5	7
Dutchess Community College	4	6	5	3	5 4*	8
Elizabeth Seton College	9	1	<i>ა</i>	_	2*	6
Erie County Technical Inst.	2	8	8	2 3	1	6*
Fashion Inst. of Tech.	5	4 *	((5 5	, 1	5
Hudson Valley Comm. College	. 4	8	6	3	L	<i>J</i>



Junior College Factor Scores--Page 11

College	Cult. Affl.	Tech. Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
New York continued						
Jamestown Comm. College	5	6*	6	4	2%	6*
Jr. Coll. of Packer	-	_	-	_	_	
Collegiate Institute	9	1	3	5	4	7
Maria Regina College	8	2*	3	2	- 5*	. 8*
Mohawk Valley Comm. College	3	8	6	3	2	7
Monroe Community College	3	4	4	5	<u>4</u> %	6
Nassau Community College	4	5	6	1	8	7
New York City Community	-		J	-	J	•
College of Applied Art & Sci.	4	6	8	3	2	7
Orange County Comm. College	5	5	6	4	5	5
Paul Smith's College	6	4	4	 5*	3	8
Queensborough Comm. College	3	7	4	5	5	9
Rockland Comm. College	5	8	_	4		·
<u> </u>		8	4		4	8
Staten Island Comm. College	4	0	1	3	4	8
State Univ. NY Agr & Tech Insts	,	,	,	0	-	F 1
Alfred	6	6	6	8	7	7
Canton	5	7	5	7	1	7
Cobleskill	5	4	4 '	8	1	5
Delhi	5	7	5	6	1	7
Farmingdale	4	8	8	5	2	6
Morrisville	5	6*	5	8	1	6*
Suffolk County Comm. College	2	5	6	2	7	7
Voorhees Technical Institute	8	9.	2	4	2*	5
Westchester Comm. College	3	7	7	3	3	5
North Carolina						
Brevard College	7	4	6	6	7	6
Chowan College	6	6	5	7	3	6
College of the Albemarle	4	3	3	$\mathcal{Q}_{\!$	5*	8
Gardner-Webb College	6	5	5	8	8	5
Gaston Technical Institute	5	9	2	6	2*	3
Lees-McRae Junior College	6	5	5	8	4	5
Louisburg College	6	6	5	4	4	5
Mecklenburg College ⁶	4	2	3	5	3	5
Mitchell College	67.	2.	4	6	2	4
Montreat-Anderson College	8	2	5	7	8	'7
Mount Olive Junior College	6	. 2	3	, 5	4	5
Oak Ridge Military Institute	7	4	1	<i>7</i>	<u>क</u>	3*
Peace College	4	- 1	л, Т	4	<u>د</u> 2	5* 6
<u> </u>	0	1 1	*± ∧	0	<i>3</i>	_
Sacred Heart Junior College	ブ	1 1	4	5	<i>5</i>	5
St. Mary's Junior College	(Ţ	4	8	5	5
Warren Wilson College	7	5 / sk	5	(= -1:	• 6	7*
Wingate College	<u> 6</u> *	<u>6</u> *		7* 	<u> </u>	5 <u>*</u>

⁶Now included in Central Piedmont Community College



Junior College Factor Scores--Page 12

College	Cult. Affl.	Tech. Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
North Dakota						
Bismarck Junior College	3	5	4	5	6	5
Lake Region Junior College	5*	3	3*	6 ::	4	2
North Dakota School of Forestry	6	4	4	7	4*	3
N. Dak. State School of Science	4	8	6	9	3	· 3
Ohio						
Ohio College of Applied Science	5	9	5	7	1	4*
Sinclair College	6	7	5	3	2	7
Urbana College	8	5	4	5	9*	7
Oklahoma						
Altus Junior College	3*	5	5*	4	9	2
Bacone College	6	3	5	6	5	2
Cameron State Agric College	6	7	6	6	8	5
Connors State Agric. College	5	8	6	7	3	4
Eastern Okla. A & M College	5	8	5	8	5	4
El Reno Junior College	3	4	3	2	7	1
Murray State Agric. College	5	7	5	8	5	7*
Northeastern Okla. A&M Coll.	8	7	6	6	5*	4
Northern Okla. Junior College	5	5	5	7	5	4
Oklahoma Military Academy	7	7	6	7	3	· 5
Poteau Community College	5	5	4	3	4	3
Sayre Junior College	2	3	1	4	4	1
Seminole Junior College	9	$4^{'}$	3	3	4*	1
St. Gregory College	9	4	4	5	5	7
Oregon						
Blue Mountain Comm. College	5*	5	4*	2	2*	4
Central Oregon College	5	6	6	2	5	3
Clatsop College	5	8	2	3	4%	5
Multnomah College	6	7	6	4	· 8	4
Oregon Tech Institute	5	8	6	6	1	5
Portland Community College	2	7	7	1	2*	. 2
Southwestern Oregon College	4	7	5	2	4*	5
Treasure Valley Comm. College	5	3	4	2	4 %	4
Pennsylvania						
Eastern Pilgrim College	9	2	3	.5	3	3*
Harcum Junior College	7	3	4	9	4	8
Hershey Junior College	6	5	6	6	8	6*
Keystone Junior College	6	5	5	6	6	8
Lackawanna Junior College	6	3	5	4	. 1	6
Manor Junior College	9	2*	4	. 4	, 4	7*
Mt. Aloysius Junior College	8	1	5	6	5	6



College	Cult. Affl.	Tech. Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
Pennsylvania continued						
Penn Hall Junior College	8	1	4	6	3	7
Pa State Univ. Cwth Campuses	_	_	-	O	3	•
Allentown Center	4	8	1	4	2*	5
Altoona Campus	3	8	- 5	3	4	. 6
Behrend Campus	4	8	4	6	5*	5
Berks Center	4	9	2	3	1	4
DuBois Campus	5	8	3	6	4	4
Hazelton Campus	5	8	4	6	4.	3
McKeesport Campus	3	9	5	3	- 5	5*
New Kensington Center	3	8	3	J 1		54
Ogontz Campus	3	7	,	4	<u> </u>	5 7
Schuykill Campus	5	Q	6 3	6	<i>5</i>	1
Scranton Center	3	0		6	9	4
Wilkes-Barre Center	2	9	7	3	2	3
York Campus	3	9		4	1	4
-	,	9	1	4	1	4
Point Park Junior College	6	4.	5 -	3	4 %	8
Robert Morris Junior College	6	3	5	4	4×	7
Spring Garden Institute	6	9	4	1	1	6
Valley Forge Military Jr. Coll.	7	4	4	5	4	5*
York Junior College	6	5	6	4	5	7
Rhode Island						
Roger Williams Junior College	6	8.	3	4	3	8
South Carolina						
Anderson Junior College	4	2	5	5	4	5
North Greenville Junior College	6	5	5	7	7	7
Spartanburg Junior College	6	3	4	7	3	3
Voorhees College	7	4	3	8	4	5
South Dakota						
Freeman Junior College	9	4	2 ,	7	4	5*
Presentation Junior College	6	1	3	5	5	2
Townson						
Tennessee	,	•		_		
Cumberland College of Tenn.	6	3	4	5	9	8
Freed-Hardeman College	7	4	6	7	4	4
Hiwassee College	6 .	6	6	7	5	3
Lee College	7	2	4	6	6	3
Martin College	6	5	5	8	4	4*
Morristown College	6	2	3	6	3	4
Owen College	6	3*	3	3	, 4	4*



College	Cult. Affl.	Tech. Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
Texas						
Allen Academy	7	7	3	1	0	4 44
Alvin Junior College	3	6	5	4 2	9	4*
Amarillo College	4	5	0 7	5	4	5
Blinn College	3	5 6*	6	o	8	5
Cisco Junior College	5	5	б И	8	(5*
Clarendon Junior College	5	3	1 1	<i>(</i>	8	5*
Cooke County Junior College	4	5	4 ∕1	6	5	3
Decatur Baptist College	6	3	4	7	9	3
Del Mar College	4.	5	4	1	4	6
Frank Phillips College	4	6 5	((.	4	<i>(</i>	6
Henderson County Junior College		5	0	5	5	4
Howard County Junior College		5 7	(5	5	4
Jacksonville College	4 8	7	8	4.	5	5
Kilgore College	0 1	2	3	6	4	3*
Laredo Junior College	*	7	6	6	4	4
Lee College	(E	3	5	5	3	4
Lon Morris College	5	6	7	5	3	5
• •	6	4	5	7	7.	4
Lubbock Christian College	(4	4	4	4	6
Lutheran Concordia College	8	3	3	6	5	5
Navarro Junior College	6	5	6	5	5	5
Odessa College	4.	5	7	3	5	5
Panola College	4	5	5 .	4	5	5
Paris Junior College	5	8 _.	4	7	4	5*
Ranger Junior College	5	3	3	6	7	5
San Angelo College	4	5	7	6	8	7.
San Antonio College	3	5	8	4	4	5
San Jacinto College	3	5	7	3	9	6
Schreiner Institute	8	7*	4	6	5	5 *
South Plains College	5	5	6	3	5	4
South Texas Junior College	7	5	7	3	9	9
Southwest Texas Junior College	5	5	7	2	8	5
Southwestern Assemblies						
of God College	8	2	6	6	5	4
Southwestern Christian College	9	2	3	4	5	3
Southwestern Union College	9	4	6	7	6	5
St. Philip's College	5	6	6	5	5	6
Temple Junior College	3	6	6	7	5	4
Texarkana College	3	5	6	6	4*	- 5*
Texas Southwest College	3	7	8	6	5*	7
Tyler Junior College	3	5	7	6	8	4
The Victoria College	3	5	6	7	5*	5
Weatherford College	5	5	6	7	5	4
Wharton County Junior College	3	5	7	5	7	4



College	Cult. Affl.	Tech. Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
Utah						,
Carbon College	6	6	6	6	8	5
Dixie College	6	5*	6	5	9	5*
Snow College	4	5*	5*	4	4	4%
Vermont						•
Champlain College	7	5*	4	4	1	7*
Green Mountain College	7	1	5	6	5	8
Vermont College	6	1	5	7	4	7
Vermont Tech College	5	9	2	8	1	4
Virginia						
Averett College	6	3	5	7	5	6
Bluefield College	6	6	5	8	9	4
Christopher Newport College					•	_
of William and Mary	3	3	3	3	5*	5
Clinch Valley College of			_	_	•	
University of Virginia	5	5	4	5	7	6
Danville Branch of VPI	2	7	3	5	3	8
Ferrum Junior College	6	5	5	9	5*	7
George Mason Col of U of Va	5	9	2	3	4	7*
Marion College	7	3	4.	8	5	4
Marymount College of Virginia	6	1	4	5	5	8
Richard Bland College of	O		-1	3	J	O
William and Mary	5	5	4 .	2	4*	4
Roanoke Tech Inst, Div of VPI	_	9	1	3		6
Shenandoah College	7	4*	2		2*	5 5*
Southern Seminary Jr. College	4	2	<i>3</i>	7	5	5 *
	6 7	2	4	(5	6
Stratford College	<i>(</i>	1	4	6	3	5
Sullins College	8	1	5	9	4	6
Tech Inst, Old Dominion	5*	9	3 *	5	1	3
Virginia Intermont College	7	4	6	8	5	6
Washington						
Big Bend Community College	4 .	7	5	2	5*	5
Centralia College	4	6	6	7	8	3
Clark College	3	5	7	4	5*	5
Columbia Basin College	3	7	7	3	5	6
Everett Junior College	5	5	8	5	5*	6
Grays Harbor College	4	4	6	4	4	4
Highline College	3	6	5	2	5	5
Lower Columbia College	4	6	7	4	5	6
Olympic College	2	6	7	3	5*	4
Peninsula College	4	5	5	3	4*	3



Junior College Factor Scores -- Page 16

	Cult. Affl.	Tech. Spec.	${f Size}$	Age	Tfr. Emp.	Bus. Otn.
						<u></u>
Washington continued				_		
Skagit Valley College	6	7	6	6	4	4
Wenatchee Valley College	3	6	7	4	4	6
Yakima Valley	6	6	7	6	7	. 4
West Virginia						
Beckley College	6	5*	5*	6	5*	5*
Greenbrier College	8	1	3	9	3	5
Potomac State Coll. of W.V. Univ.	5	4	6	8	8	6
Wisconsin						
Concordia College	6	5*	5	6	5	7
Milwaukee Inst of Technology	4	8	8	4	2*	5
Milwaukee School of Engineering	7	9.	6	6	2,	6
Univ of Wisc Fresh & Soph Ctrs						
Fox Valley Center	3	8	3	5	4*	7
Green Bay Center	2	8	4	5	4*	7
Kenosha Center	2	8	3	4	4*	7
Manitowoc County Center	1	9	1	4	4*	[/] 5
Marinette Center	2	. 9	1	4	4*	6
Marathon County Center	2	6	3	5	4 %	7
Racine Center	3	7	3	6*	4*	7
Sheboygan County Center	3	9	1	5	4%	4
Wyoming		•	•			
Casper College	3	4	7	3	5	3
Goshen County Community Coll.	6	- 5*	2	5	3	4*
Northern Wyoming Comm. Coll.	6	7	6	5	4	6
Northwest Community College	6	5	4	5	6	4
Western Wyoming Junior Coll.	5	5	3	4	5*	ī
Colleges which are now Four-Year	College	es				
Pueblo Jr. Coll. (Colorado) Armstrong College of	3	6	8	5	6	4
Savannah (Georgia)	2	6	6	5	5	6
Georgia Southwestern Coll. (Ga.)	6	4	6	8	5	8
Dordt College (Iowa)	6	3*	3	5	5	7%
Cumberland Coll. (Kentucky)	6	4*	5	7	5	7*
Baltimore Coll. of Commerce (Mo	1.)5	4*	4	4	4*	5
Eastern College (Maryland)	5	4 *	5	2	3	5*
Spring Arbor College (Mich.)	7	3*	4	7	5 %	_

Junior College Factor Scores -- Page 17

College	Cult. Affl.	Tech. Spec.	Size	Age	Tfr. Emp.	Bus. Otn.
Colleges now 4-year continued						
Concordia College (Minnesota)	7	2	6	E	9	5
Asheville-Biltmore College (N.C.) 5	6	5	5	5	7
Charlotte College (N.C.)	4	7	6	3	7	· 7
Wilmington College (N.C.)	3	5	5	5	7	6
Gwynedd-Mercy Coll. (Pa.)	7	3	5	3	2	6
Central Wesleyan Coll. (S.C.)	7	2	3	8	5	6
Colleges which have Closed						
Collier-Blocker Jr. Coll. (Fla.)	4	2	1	4	3	1
Bethel College (Kentucky)	7	3	5	·/	5	7
Wessington Springs Coll. (S.D.)	9	3	3	6	5	3

Note. -- Scores in this table are stanine scores. For a description of stanine scores see J. P. Guilford's <u>Fundamental statistics in psychology and education</u>. New York: McGraw-Hill, 1956, p. 503.

